New Jersey Department of Environmental Protection

Bureau of Discharge Prevention

Guidance on Changes to Appendix A Resulting from the Readoption of N.J.A.C. 7:1E

Effective October 1, 2001

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Introduction

The list of hazardous substances contained in Appendix A of N.J.A.C. 7:1E was revised with the readoption of the rules effective October 1, 2001. These changes reflect the composition of the lists specifically cited in the Spill Compensation and Control Act (N.J.S.A. 58:10-23.11a et seq.) as those lists were constituted in July 2000. Revisions made to the entries in Appendix A will be set forth in this document. Every effort has been made to ensure the accuracy of the information in this document. However, if any question remains unanswered, please contact the Bureau of Discharge Prevention at (609) 633-0610.

It should be noted that no de minimis level of concentration as been established for most of the compounds found in Appendix A. If a de minimis does exist, it can be found as part of the listing for the specific chemical. There is a size limitation established for metals in N.J.A.C. 7:1E-1.7(b)1. Pure or alloyed metals with at least one dimensional measurement of 100 micrometers (0.004 inches) or greater are not considered hazardous substances for the purposes of these rules. Also, certain flammable and inert substances, although listed in Appendix A, are not regulated by this chapter.

Deletions

While 82 entries have been deleted from Appendix A, some of these deletions do not change the regulated status of certain compounds. Therefore, this section is divided into two subsections: those listings deleted and resulting in the compounds no longer being regulated; and those listings deleted but the compounds are covered by another listing in Appendix A. These lists are in alphabetical order. Appendix I contains the deleted compounds list in Chemical Abstract Service (CAS) Number order. Appendix II contains the deleted listings list in CAS Number order.

Deleted (No Longer Regulated) Compounds

The following alphabetical listings and associated compounds have been deleted:

Name	CAS No.
Ammonium nitrate	6484-52-2
Ammonium perchlorate	7790-98-9
Ammonium sulfate (solution)	7783-20-2
Bis(dimethylthiocarbamoyl) sulfide	97-74-5
Bis(2-ethylhexyl) adipate	103-23-1
Bis(pentamethylene)thiuram tetrasulfide	120-54-7
Black powder	*****
Bronopol	52-51-7
Butylate	2008-41-5
Caprolactum	105-60-2
Cyclotetramethylenetetranitramine	2691-41-0
Cyclotetramethylenetrinitramine	121-82-4
Diazodinitrophenol	87-31-0
2,2-Dibromo-3-nitrilopropionamide	10222-01-2
Dimethyl sulfide	75-18-3
4,6-Dinitro-o-cresol	534-52-1
Dinitroglycoluril	55510-04-8
Dinitroresorcinol	35860-51-6
Dipicryl sulfide	2217-06-3
Disulfiram	97-77-8
Fenitrothion	122-14-5
Flash powder	*****
Guanyl nitrosaminoguanylidene hydrazine	*****
Hexanitrodiphenylamine	131-73-7
Hexanitrostilbene	20062-22-0
Hexatonal, cast	*****
Isopropyl formate	625-55-8
K149: Distillation bottoms from the production of alpha- (or methyl-)	*****

Name	CAS No.
chlorinated toluenes, ring-chlorinated toluenes, benzoyl chlorides, and compounds with mixtures of these functional groups. (This waste does not include still bottoms from the distillation of benzyl chloride.)	
K150: Organic residuals, excluding spent carbon adsorbent, from the spent chlorine gas and hydrochloric acid recovery processes associated with the production of alpha- (or methyl-) chlorinated toluenes, ring-chlorinated toluenes, benzoyl chlorides, and compounds with mixtures of these functional groups.	*****
K151: Wastewater treatment sludges, excluding neutralization and biological sludges, generated during the treatment of wastewaters from the production of alpha- (or methyl-) chlorinated toluenes, ring-chlorinated toluenes, benzoyl chlorides, and compounds with mixtures of these functional groups.	*****
K160: Solids (including filter wastes, separation solids, and spent catalysts) from the production of thiocarbamates and solids from the treatment of thiocarbamate wastes.	*****
Mannitol hexanitrate	15825-70-4
Methyl disulfide	624-92-0
5-Nitrobenzotriazole	2338-12-7
Nitrocellulose (dry or wetted with less than 25 percent water (or alcohol) by mass)	9004-70-0
Nitrocellulose (unmodified or plasticized with less than 18 percent plasticizing substance, by mass)	9004-70-0
Nitroguanidine	556-88-7
Nitrostarch	9056-38-6
Nitrotriazolone	932-64-9
Nitrourea	556-89-8
Pentaerythrite tetranitrate	78-11-5
Pentolite	8066-33-9
Phosphorus pentoxide	1314-56-3
Picric acid	88-89-1
Piprotal	5281-13-0
Potassium n-hydroxymethyl-n-methyldithiocarbamate	51026-28-9
Powder cake	*****
Powder, smokeless	*****
Sodium dibutyldithiocarbamate	136-30-1

Name	CAS No.
Sodium diethyldithiocarbamate	148-18-5
Sulfallate	95-06-7
Tellurium	13494-80-9
Tetrabutylthiuram disulfide	1634-02-2
Tetranitroaniline	53014-37-2
Trinitroaniline	26952-42-1
Trinitroanisole	606-35-9
Trinitrobenzenesulfonic acid	2508-19-2
Trinitrobenzoic acid	129-66-8
Trinitrochlorobenzene	28260-61-9
Trinitro-m-cresol	602-99-3
Trinitrofluorenone	25322-14-9
Trinitronaphthalene	55810-17-8
Trinitrophenetole	4732-14-3
Trinitrophenylmethylnitramine	479-45-8
Trinitroresorcinol	82-71-3
Trinitrotouluene	118-96-7
Tritonal	54413-15-9
Urea nitrate	124-47-0
Vernolate	1929-77-7

Deleted Listings (Compounds Still Regulated)

The following listings have been deleted, but the compounds are still regulated:

Deleted Listing		Current Listing	
---------Barium azide	18810-58-7	Barium compounds (except Barium Sulfate)	*****
Barium styphnate	20236-55-9	Barium compounds (except Barium Sulfate)	*****
Bithionol	97-18-7	Chlorinated phenols	*****
Chromic acid	1333-82-0	Chromium compounds	*****
Copper dimethyldithiocarbamate	137-29-1	Copper compounds	*****
Diethyleneglycol dinitrate	693-21-0	Glycol ethers ***** & Nitrates	*****
2,6-Dimethylphenol	576-26-1	Xylenol	1300-20-7
Ethyl ziram	14324-55-1	Zinc compounds	*****
Lead azide	13424-46-9	Lead compounds	*****
Lead mononitroresorcinate	51317-24-9	Lead compounds	*****
Lead styphnate	63918-97-8	Lead compounds	*****

Name	CAS No.			
Selenium tetrakis(dimethyldithiocarbamate)	144-34-3	Selenium compounds	*****	
Tetrazene	109-27-3	Nitrosamines		*****

Additions

The following 13 compounds and categories have been added to the list of hazardous substances in Appendix A. In some cases, specific compounds previously were included in a regulated category. This list is alphabetical. Appendix III contains a CAS Number order list of these additions.

Additions to Appendix A

Name	CAS Number
2,3-Dichloropropanol	616-23-9
Dioxin and dioxin-like compounds	*****
Fine mineral fibers of average diameter 1 micrometer or less	*****
K169: Crude oil storage tank sediment from petroleum refining operations.	*****
K170: Clarified slurry oil tank sediment and/or in-line filter/separation solids from petroleum refining operations.	*****
K171: Spent hydrotreating catalyst from petroleum operations. This listing does not include inert support media.)	*****
K172: Spent hydrorefining catalyst from petroleum refining operations. This listing does not include inert support media.)	*****
Octachlorostyrene	29082-74-4
Polychlorinated alkanes (C10 to C13)	*****
Polycyclical Organic Matter with more than one benzene ring and a boiling point greater than or equal to 100^{o}C	*****
Sodium phosphate dibasic	10028-24-7
Tetrabromobisphenol A	79-94-7
Vanadium compounds	*****

Revisions to Listings

A number of listings in Appendix A have been revised. The revisions include addition of text, revisions to CAS Numbers, and addition of an asterisk to some listings. The following is an alphabetical list of the changes made to listings in Appendix A. Appendix IV contains these revised listings in CAS Number order.

Revised Listings

Name	CAS Number
Aniline (and salts)	62-53-3
Barium compounds (except Barium sulfate)	*****
Beryllium powder	7440-41-7
Bromochlorodifluoromethane (Halon 1211)*	353-59-3
Bromotrifluoromethane (Halon 1301)*	75-63-8
Chlorodifluoromethane (HCFC-22)*	75-45-6
Dichlorofluoromethane (HCFC-21)*	75-43-4
Dichlorotetrafluoroethane (CFC-114)*	76-14-2
F037: Petroleum refinery primary oil/water/solids separation sludge - Any sludge generated from the gravitational separation of oil/water/solids during the storage or treatment of process wastewaters and oily cooling wastewaters from petroleum refineries. Such sludges include, but are not limited to, those generated in: oil/water/solids separators; tanks and impoundments; ditches and other conveyances; sumps; and stormwater units receiving dry weather flow. Sludge generated in stormwater units that do not receive dry weather flow, sludges generated from non-contact once-through cooling waters segregated for treatment from other process or oily cooling waters, sludges generated in aggressive biological treatment units as defined in §261.31(b)(2) (including sludges generated in one or more additional units after wastewaters have been treated in aggressive biological treatment units) and K051 wastes are not included in this listing.	*****
F038: Petroleum refinery secondary (emulsified) oil/water/solids separation sludge - Any sludge and/or float generated from the physical and/or chemical separation of oil/water/solids in process wastewaters and oily cooling wastewaters from petroleum refineries. Such wastes include, but are not limited to, all sludges and floats generated in: induced air flotation (IAF) units, tanks and impoundments, and all sludges generated in dissolved air floatation (DAF) units. Sludges generated in stormwater units that do not receive dry weather flow, sludges	*****

Name	CAS No.
generated from once-through non-contact cooling waters segregated for treatment from other process or oil cooling wastes, sludges and floats generated in aggressive biological treatment units as defined in §261.31(b)(2) (including sludges and floats generated in one or more additional units after wastewaters have been treated in aggressive biological treatment units) and F037, K048, and K051 wastes are not included in this listing.	
K062: Spent pickle liquor generated by steel finishing operations of facilities within the iron and steel industry (SIC Codes 331 and 332, NAICS Codes 3311, 3312 and 33151).	*****
K136: Still bottoms from the purification of ethylene bromide in the production of ethylene dibromide via bromination of ethene.	*****
K141: Process residues from the recovery of coal tar, including, but not limited to, tar collecting sump residues from the production of coke from coal or the recovery of coke by-products produced from coal. This listing does not include K087 (decanter tank tar sludge from coking operations.)	*****
K144: Wastewater treatment sludges from light oil refining, including, but not limited to, intercepting or contamination sump sludges from the recovery of coke by-products from coal.	*****
K156: Organic waste (including heavy ends, still bottoms, light ends, spent solvents, filtrates, and decantates) from the production of carbamates and carbamoyl oximes. This listing does not apply to wastes generated from the manufacture of 3-iodo-2-propynyl n-butylcarbamate.)	*****
K157: Wastewaters (including scrubber waters, condenser waters, washwaters, and separation waters) from the production of carbamates and carbamoyl oximes. (This listing does not apply to wastes generated from the manufacture of 3-iodo-2-propynyl n-butylcarbamate.)	*****
K158: Bag house dusts and filter/separation solids from the production of carbamates and carbamoyl oximes. (This listing does not apply to wastes generated from the manufacture of 3-iodo-2-propynyl n-butylcarbamate.)	*****

Name	CAS No.
K159: Organics from the treatment of thiocarbamate wastes.	*****
Trichlorofluoromethane (CFC-11)*	76-69-4
Vanadium (except when contained in an alloy)	7440-62-2

Appendix I

Deleted Compounds in CAS Number Order

CAS Number	Name
*****	Black powder
*****	Flash powder
*****	Guanyl nitrosaminoguanylidene hydrazine
*****	Hexatonal, cast
*****	K149: Distillation bottoms from the production of alpha- (or methyl-) chlorinated toluenes, ring-chlorinated toluenes, benzoyl chlorides, and compounds with mixtures of these functional groups. (This waste does not include still bottoms from the distillation of benzyl chloride.)
*****	K150: Organic residuals, excluding spent carbon adsorbent, from the spent chlorine gas and hydrochloric acid recovery processes associated with the production of alpha- (or methyl-) chlorinated toluenes, ring-chlorinated toluenes, benzoyl chlorides, and compounds with mixtures of these functional groups.
*****	K151: Wastewater treatment sludges, excluding neutralization and biological sludges, generated during the treatment of wastewaters from the production of alpha- (or methyl-) chlorinated toluenes, ring-chlorinated toluenes, benzoyl chlorides, and compounds with mixtures of these functional groups.
*****	K160: Solids (including filter wastes, separation solids, and spent catalysts) from the production of thiocarbamates and solids from the treatment of thiocarbamate wastes.
*****	Powder cake
*****	Powder, smokeless
52-51-7	Bronopol
75-18-3	Dimethyl sulfide
78-11-5	Pentaerythrite tetranitrate
82-71-3	Trinitroresorcinol
87-31-0	Diazodinitrophenol
88-89-1	Picric acid
95-06-7	Sulfallate
97-74-5	Bis(dimethylthiocarbamoyl) sulfide
97-77-8	Disulfiram
103-23-1	Bis(2-ethylhexyl) adipate

105-60-2	Caprolactum
118-96-7	Trinitrotouluene
120-54-7	Bis(pentamethylene)thiuram tetrasulfide
121-82-4	Cyclotetramethylenetrinitramine
122-14-5	Fenitrothion
124-47-0	Urea nitrate
129-66-8	Trinitrobenzoic acid
131-73-7	Hexanitrodiphenylamine
136-30-1	Sodium dibutyldithiocarbamate
148-18-5	Sodium diethyldithiocarbamate
479-45-8	Trinitrophenylmethylnitramine
534-52-1	4,6-Dinitro-o-cresol
556-88-7	Nitroguanidine
556-89-8	Nitrourea
602-99-3	Trinitro-m-cresol
606-35-9	Trinitroanisole
624-92-0	Methyl disulfide
625-55-8	Isopropyl formate
932-64-9	Nitrotriazolone
1314-56-3	Phosphorus pentoxide
1634-02-2	Tetrabutylthiuram disulfide
1642-54-2	Diethylcarbamazine citrate
1929-77-7	Vernolate
2008-41-5	Butylate
2217-06-3	Dipicryl sulfide
2338-12-7	5-Nitrobenzotriazole
2508-19-2	Trinitrobenzenesulfonic acid
2691-41-0	Cyclotetramethylenetetranitramine
4732-14-3	Trinitrophenetole
5281-13-0	Piprotal
6484-52-2	Ammonium nitrate
7783-20-2	Ammonium sulfate (solution)
7790-98-9	Ammonium perchlorate
8066-33-9	Pentolite
9004-70-0	Nitrocellulose (dry or wetted with less than 25 percent water (or alcohol) by mass)
9004-70-0	Nitrocellulose (unmodified or plasticized with less than 18 percent plasticizing substance, by mass)
9056-38-6	Nitrostarch
10222-01-2	2,2-Dibromo-3-nitrilopropionamide
13494-80-9	Tellurium
15825-70-4	Mannitol hexanitrate
20062-22-0	Hexanitrostilbene

CAS Number	Name
25322-14-9	Trinitrofluorenone
26952-42-1	Trinitroaniline
28260-61-9	Trinitrochlorobenzene
35860-51-6	Dinitroresorcinol
51026-28-9	Potassium n-hydroxymethyl-n-methyldithiocarbamate
53014-37-2	Tetranitroaniline
54413-15-9	Tritonal
55510-04-8	Dinitroglycoluril
55810-17-8	Trinitronaphthalene

Appendix II
Deleted Listings in CAS Number Order

Deleted Listing		Current Listing	
97-18-7	Bithionol	*****	Chlorinated phenols
109-27-3	Tetrazene	*****	Nitrosamines
137-29-1	Copper dimethyldithiocarbamate	*****	Copper compounds
144-34-3	Selenium tetrakis(dimethyldithiocarbamate)	*****	Selenium compounds
576-26-1	2,6-Dimethylphenol	1300-71-6	Xylenol
693-21-0	Diethyleneglycol dinitrate	*****	Glycol Ethers & ***** Nitrates
1333-82-0	Chromic acid	*****	Chromium compounds
13424-46-9	Lead azide	*****	Lead compounds
18810-58-7	Barium azide	*****	Barium compounds (except Barium Sulfate)
20236-55-9	Barium styphnate	*****	Barium compounds (except Barium Sulfate)
51317-24-9	Lead mononitroresorcinate	*****	Lead compounds
63918-97-8	Lead styphnate	*****	Lead compounds
14324-55-1	Ethyl ziram	*****	Zinc compounds

Appendix III
Additions in CAS Number Order

CAS No.	Name
*****	Dioxin and dioxin-like compounds
*****	Fine mineral fibers of average diameter 1 micrometer or less
*****	K169: Crude oil storage tank sediment from petroleum refining operations.
*****	K170: Clarified slurry oil tank sediment and/or in-line filter/separation solids from petroleum refining operations.
*****	K171: Spent hydrotreating catalyst from petroleum operations. (This listing does not include inert support media.)
*****	K172: Spent hydrorefining catalyst from petroleum refining operations. (This listing does not include inert support media.)
*****	Polychlorinated alkanes (C10 to C13)
*****	Polycyclic Organic Matter with more than one benzene ring and a boiling point greater than or equal to 100^{o}C
*****	Vanadium compounds
79-94-7	Tetrabromobisphenol A
616-23-9	2,3-Dichloropropanol
10028-24-7	Sodium phosphate dibasic
29082-74-4	Octachlorostyrene

Appendix IV
Revised Listings in CAS Number Order

CAS No.	Name
*****	Barium compounds (except Barium sulfate)
*****	Dioxin and dioxin-like compounds
*****	F037: Petroleum refinery primary oil/water/solids separation sludge - Any sludge generated from the gravitational separation of oil/water/solids during the storage or treatment of process wastewaters and oily cooling wastewaters from petroleum refineries. Such sludges include, but are not limited to, those generated in: oil/water/solids separators; tanks and impoundments; ditches and other conveyances; sumps; and stormwater units receiving dry weather flow. Sludge generated in stormwater units that do not receive dry weather flow, sludges generated from non-contact once-through cooling waters segregated for treatment from other process or oily cooling waters, sludges generated in aggressive biological treatment units as defined in §261.31(b)(2) (including sludges generated in one or more additional units after wastewaters have been treated in aggressive biological treatment units) and K051 wastes are not included in this listing.
*****	F038: Petroleum refinery secondary (emulsified) oil/water/solids separation sludge - Any sludge and/or float generated from the physical and/or chemical separation of oil/water/solids in process wastewaters and oily cooling wastewaters from petroleum refineries. Such wastes include, but are not limited to, all sludges and floats generated in: induced air flotation (IAF) units, tanks and impoundments, and all sludges generated in DAF units. Sludges generated in stormwater units that do not receive dry weather flow, sludges generated from once-through non-contact cooling waters segregated for treatment from other process or oil cooling wastes, sludges and floats generated in aggressive biological treatment units as defined in §261.31(b)(2) (including sludges and floats generated in one or more additional units after wastewaters have been treated in aggressive biological treatment units) and F037, K048, and K051 wastes are not included in this listing.
*****	Fine mineral fibers of average diameter 1 micrometer or less
*****	K062: Spent pickle liquor generated by steel finishing operations of facilities within the iron and steel industry (SIC Codes 331 and 332, NAICS Codes 3311, 3312 and 33151).
*****	K136: Still bottoms from the purification of ethylene bromide in the production of ethylene dibromide via bromination of ethene.
*****	K141: Process residues from the recovery of coal tar, including, but not limited to, tar

CAS No.	Name
	collecting sump residues from the production of coke from coal or the recovery of coke by-products produced from coal. This listing does not include K087 (decanter tank tar sludge from coking operations.)
*****	K144: Wastewater treatment sludges from light oil refining, including, but not limited to, intercepting or contamination sump sludges from the recovery of coke by-products from coal.
*****	K156: Organic waste (including heavy ends, still bottoms, light ends, spent solvents, filtrates, and decantates) from the production of carbamates and carbamoyl oximes. (This listing does not apply to wastes generated from the manufacture of 3-iodo-2-propynyl n-butylcarbamate.)
*****	K157: Wastewaters (including scrubber waters, condenser waters, washwaters, and separation waters) from the production of carbamates and carbamoyl oximes (This listing does not apply to wastes generated from the manufacture of 3-iodo-2-propynyl n-butylcarbamate.)
*****	K158: Bag house dusts and filter/separation solids from the production of carbamates and carbamoyl oximes. (This listing does not apply to wastes generated from the manufacture of 3-iodo-2-propynyl n-butylcarbamate.)
62-53-3	Aniline (and salts)
75-43-4	Dichlorofluoromethane (HCFC-21)*
75-63-8	Bromotrifluoromethane (Halon 1301)*
75-69-4	Trichlorofluoromethane (CFC-11)*
76-14-2	Dichlorotetrafluoroethane (CFC-114)*
353-59-3	Bromochlorodifluoromethane (Halon 1211)*
7440-41-7	Beryllium powder
7440-62-2	Vanadium (except when contained in an alloy)